

THE HONORABLE RICHARD A. JONES

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8 **UNITED STATES DISTRICT COURT**  
9 **WESTERN DISTRICT OF WASHINGTON**  
10 **AT SEATTLE**

11 CITY OF SEATTLE, a municipal  
12 corporation, located in the County of  
King, State of Washington,

13 Plaintiff,

14 v.

15 MONSANTO COMPANY, SOLUTIA  
16 INC., and PHARMACIA  
CORPORATION,

17 Defendants.

Case No. 2:16-CV-00107-RAJ

**DEFENDANTS' *DAUBERT*  
MOTION TO EXCLUDE THE  
EXPERT TESTIMONY OF  
LISA RODENBURG**

**Noted for: August 26, 2022**

**Oral Argument Requested**

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On August 4, 2022, counsel for Defendants and counsel for Plaintiff met and conferred on the substance of this motion but did not reach an agreement.

### **I. INTRODUCTION**

Monsanto challenges the admission of certain opinions from Plaintiff's retained expert, Lisa A. Rodenburg, Ph.D. ("Rodenburg"). Rodenburg is Plaintiff's expert on the issue of PCB product identification. (*See* Rodenburg *Seattle* Rpt., attached as Ex. A of DeBord Decl.).<sup>1</sup> Rodenburg is being offered at trial for only one opinion: that a high percentage ("in most cases, greater than 95% of the total") of the PCBs found in the Lower Duwamish Waterway ("LDW") were manufactured by Monsanto (known as "Aroclors") as opposed to those created by other manufacturers and those created through today inadvertently—*i.e.*, "byproduct" PCBs that are unintentionally created through hundreds of manufacturing processes involving heat, carbon and chlorine, or by simple combustion/incineration. (*Id.* at 3; *see also* Rodenburg *Seattle* Dep. 49:19-22, Ex. B of DeBord Decl.; Rodenburg *Spokane* Dep. 43:6-14, 51:4-6, 57:12-58:25, 61:4-63:25, Ex. C of DeBord Decl.; Rodenburg *San Diego* Dep. 18:21-25:5, Ex. D of DeBord Decl.).

Monsanto does not challenge Rodenburg's qualifications or opinions concerning the presence and ubiquity of byproduct PCBs within the environment, including her opinion that byproduct PCBs are the "main problem" facing municipalities like the City of Seattle, having been detected in numerous bodies of water (including those in Washington State) in excess of federal water quality standards. (Rodenburg *San Diego* Dep., Ex. D 24:14-21, 44:5-21, 57:12-58:15; Rodenburg *Seattle* Dep., Ex. B 58:18-59:12, 66:23-67:6). Monsanto likewise does not challenge Rodenburg's opinions that: (1) byproduct PCBs are found in numerous consumer products at concentrations of up to 2,500 ppm—14,705,882,352.94 times greater than the 0.00017 µg/L water quality standard for the State of Washington under WAC 173-201A-240; (2) byproduct PCBs from one cereal box can contaminate a volume of water past the federal water quality

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<sup>1</sup> All exhibits in support of this *Daubert* Motion to Exclude the Testimony of Lisa Rodenburg as attached to the accompanying Declaration of Lisa DeBord ("DeBord Decl.").

1 standard; or (3) of the 209 individual PCB compounds (called “congeners”), at least 130  
2 are produced unintentionally through manufacturing processes. (Rodenburg *Seattle* Dep.,  
3 Ex. B. 53:6-18, 122:3-9; Rodenburg *Spokane* Dep., Ex. C 16:10-18:20; Rodenburg *San*  
4 *Diego* Dep., Ex. D 28:6-34:4, 37:6-18, 55:15-56:5).

5 Monsanto does challenge, however, the ultimate conclusion that Rodenburg was  
6 hired to reach—that Aroclors are the “dominant” sources of PCBs in the LDW  
7 (Rodenburg *Seattle* Rpt., Ex. A at 3)—as this opinion is based on unreliable data and a  
8 methodology that is not generally accepted in the scientific community. As will be  
9 demonstrated, Rodenburg employed various statistical sleights of hand which rigged her  
10 analyses to ensure environmental sampling data would resemble Aroclor rather than  
11 byproduct PCB sources unrelated to Defendants. Rodenburg’s opinions should therefore  
12 be excluded—or at least limited—for three distinct reasons. *First*, in forming her  
13 opinions, Rodenburg relied extensively (in certain instances, more than 96%) on  
14 environmental sampling data that was taken from *outside of the LDW*—and is therefore  
15 not representative of conditions *within* the LDW. *Second*, Rodenburg compared  
16 sampling data, or “fingerprints,” to sets of data and conditions that do not exist in the real  
17 world, but rather, exist only in a counter-reality Rodenburg created to reinforce her  
18 opinions. *Third*, when determining the strength of comparison between environmental  
19 fingerprints and patterns of Aroclor and byproduct PCB sources, Rodenburg employed  
20 numerical cutoff values of her own creation which: (1) are scientifically arbitrary and  
21 indefensible; (2) have never been subjected to peer-review; and (3) are contradicted by  
22 authoritative literature that Rodenburg cites favorably outside this lawsuit.

## 23 II. LEGAL STANDARD

24 Rule 702’s gatekeeping authority vested in courts ensures an expert’s testimony  
25 “rests on a reliable foundation.” *Daubert v. Merrell Dow Pharms. Inc.*, 509 U.S. 579, 597  
26 (1993) (“*Daubert I*”). A district court must first determine “nothing less than whether the  
27 experts’ testimony reflects scientific knowledge, whether their findings are derived by the  
28

scientific method, and whether their work product amounts to good science.” *Daubert v. Merrel Dow Pharms. Inc.*, 43 F.3d 1311, 1315 (9th Cir. 1995) (“*Daubert II*”).

*Daubert* “demands a searching inquiry as to method.” *United States v. Webb*, 115 F.3d 711, 716 (9th Cir. 1997). “[A]ny step that renders the analysis unreliable . . . renders the expert’s testimony inadmissible.” *Goebel v. Denver & Rio Grande W. R.R.*, 346 F.3d 987, 992 (10th Cir. 2003) (citations and internal quotation marks omitted). Testimony that requires “too great an analytical gap between the data and the opinion offered” is impermissible. *General Elec. Co. v. Joiner*, 522 U.S. 136, 146 (1997) (citation omitted). When considering the reliability of expert testimony, a trial court should evaluate whether “the theory or technique employed by the expert” (1) is “generally accepted in the scientific community[,]” (2) has been “subjected to peer review and publication[,]” (3) “can be and has been tested[,]” and (4) whether “the known or potential rate of error is acceptable.” *Daubert II*, 43 F.3d at 1316-17 (citing *Daubert I*, 509 U.S. at 593-595).

### III. ARGUMENT

Rodenburg used two statistical tools—Positive Matrix Factorization (“PMF”) and Multiple Linear Regression (“MLR”)—in an attempt to determine whether environmental sampling data was more similar to an Aroclor versus a byproduct PCB source. (Rodenburg *Seattle* Report, Ex. A at 10, 23; Rodenburg *Seattle* Dep., Ex. B 77:22-78:16). As part of the PMF analysis, sampling data is loaded into a computer program that then generates “factors” or “fingerprints,” which represent PCB patterns within the data. (Rodenburg *Seattle* Dep., Ex. B 82:9-21; Rodenburg *Spokane* Dep., Ex. C 127:24-128:12). Next, in an attempt to identify the PCB source, Rodenburg compared the PMF factors to Aroclor and byproduct patterns both visually and using MLR. (Rodenburg *Seattle* Dep., Ex. B 83:8-25, 87:5-88:20, 307:11-22). The MLR analysis measures the strength of comparison between the sampling fingerprint and the Aroclor or byproduct pattern, and results in an output called an “r<sup>2</sup>” [r-square] value, which Rodenburg then interpreted based on various cutoff values of her own subjective creation. (*Id.* at 85:25-86:7). As discussed in turn below, Rodenburg’s relies on unreliable data and engaged in

1 various data manipulations which rigged her analyses to ensure that sampling data would  
2 look like Aroclor, rather than byproduct PCBs.

3 **A. The Data Underlying Rodenburg’s Opinions are Unreliable**

4 Rodenburg’s opinions are confined to the presence and purported source of PCBs  
5 within the LDW, which consists of river miles (“RM”) 0.0 to 5.0 of the Duwamish River.  
6 (Rodenburg *Seattle Dep.*, Ex. B 91:19-92:19, 96:2-10). However, the vast majority of  
7 data which Rodenburg relied upon to form her opinions—up to 96% for certain  
8 environmental compartments—was obtained from environmental samples taken from  
9 *outside* the LDW area at issue. (*See, e.g.*, Rodenburg *Seattle Rpt.*, Ex. A at 19 (of the 201  
10 surface water samples, only “10 were from RM 3.3, within the LDW”); *see also id.* at 18  
11 (only 4.1% of sediment samples (6 out of 146 total) were taken from within the LDW);  
12 Rodenburg *Seattle Dep.*, Ex. B 109:4-7, 110:4-9). Indeed, the data underlying  
13 Rodenburg’s analyses were derived from a study of the larger Green-Duwamish  
14 Watershed (the “GD study”), which extends to RM 95.0—more than 90 miles outside of  
15 the LDW. (Rodenburg *Seattle Dep.*, Ex. B 80:12-81:12, 98:4-11, 99:13-101:6; *see also*  
16 Leidos (2016), Ex. E to DeBord Decl. at 13, 15). As a result, Rodenburg does not know  
17 whether the data she relied on are representative of the LDW, or instead, merely represent  
18 the condition of specific sites *outside* of the LDW where the data were collected at the  
19 relevant time.

20 Remarkably, Rodenburg did not undertake any analysis to determine whether data  
21 from *outside* the area at issue was representative of actual conditions *within* the LDW.  
22 (Rodenburg *Seattle Rpt.*, Ex. A at 4; Rodenburg *Seattle Dep.*, Ex. B 311:7-312:20). It is  
23 anticipated Plaintiff will argue that data from outside of the LDW is relevant to  
24 Rodenburg’s opinions due to the purported “tidal” nature of the waterway. However,  
25 Rodenburg admits that she did not include any such analysis in her expert report for this  
26 case. (Rodenburg *Seattle Dep.*, Ex. B 312:13-20). Moreover, publications concerning  
27 the GD study—which Rodenburg incorporates by reference into her own report,  
28 (Rodenburg *Seattle Rpt.*, Ex. A at 3)—specifically note that the authors “relied on verbal

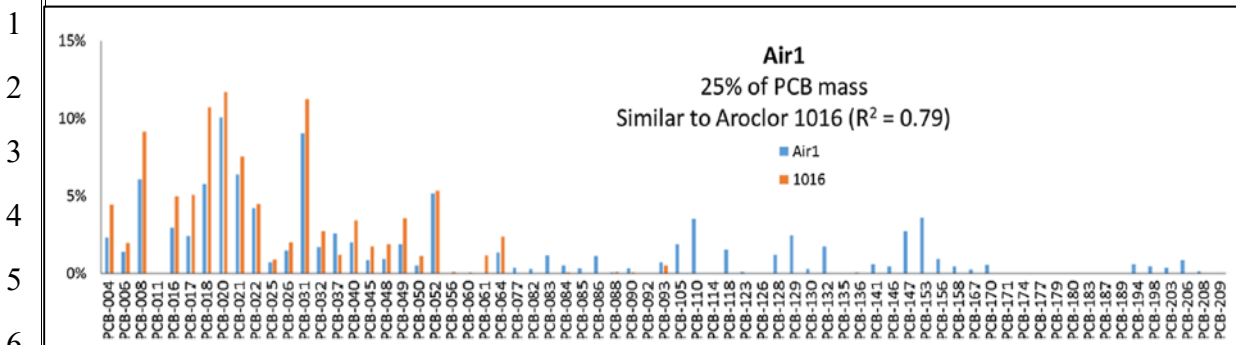
1 and written information provided by secondary sources” and “made no independent  
 2 investigations concerning the accuracy or completeness of the information relied upon.”  
 3 (Leidos (2016), Ex. E at PDF 2).

4 Rodenburg’s inability to vouch for the accuracy or representativeness of the data  
 5 she relies on renders her opinions and methodology unreliable. *See* Fed. R. Evid. 702 (b)  
 6 (expert testimony must be based on “sufficient facts or data”); *Waskowski v. State Farm*  
 7 *Mut. Auto. Ins. Co.*, 970 F. Supp. 2d 714, 723 (E.D. Mich. 2013) (excluding opinions  
 8 which are not “based on sufficient facts or data” where damages expert failed to consider  
 9 data representative of damages at issue, and based estimates on representations made by  
 10 third parties) (citations omitted). Because the data underlying her opinions are unreliable,  
 11 Rodenburg’s opinions should be excluded from trial. *Daubert II*, 43 F.3d at 1317-18; *see*  
 12 *also Goebel*, 346 F.3d at 992. At the very least, Rodenburg’s opinions should be  
 13 confined to those concerning data obtained from *within* the LDW.

14 **B. Rodenburg’s Methodology Inaccurately Describes Conditions Within**  
 15 **The LDW**

16 In an attempt to identify the source of PCBs within sampling data, Rodenburg  
 17 compared PMF factors to Aroclor and byproduct patterns both visually and using MLR.  
 18 (Rodenburg *Seattle Dep.*, Ex. B 83:8-25, 87:5-88:20, 307:11-22). The Aroclor and  
 19 byproduct patterns that Rodenburg selected for comparison, however, do not reflect real-  
 20 world conditions, and instead, assume that sampling data is comprised entirely of either:  
 21 (1) Aroclors or a mixture of Aroclors; or (2) byproduct PCBs from either silicone or  
 22 pigments. (Rodenburg *Seattle Dep.*, Ex. B 223:10-15). These comparisons—which  
 23 exclude the possibility that sampling data is comprised of a mixture of Aroclors *and*  
 24 byproduct sources—do not accurately reflect the sampling data at issue, which indicate  
 25 the presence of numerous byproduct PCB congeners within samples that Rodenburg  
 26 attributes *solely* to an Aroclor source, *e.g.*:





Reproduced from Rodenburg (2019), Ex. F to DeBord Decl. at 192.

This figure, which is incorporated by reference into her report, depicts Rodenburg’s comparison of sampling data from “Air1” (blue bars) with Aroclor 1016 (orange bars). (Rodenburg *Seattle Dep.*, Ex. B 229:10-25, 236:18-25). Individual PCB congeners are listed on the x-axis, and their respective concentrations within the sampling data are represented by the height of each bar. (*Id.* at 138:11-20). Despite the fact that Aroclor 1016 does not account for the presence of PCBs 77 through 209 within the sampling dataset, Rodenburg attributes the entirety of “Air1” to an Aroclor source. (*Id.* at 237:19-239:2; Rodenburg *Seattle Rpt.*, Ex. A at 4, 18). While Rodenburg posits that PCBs can become “weathered” over time, thus changing their chemical makeup, she admits that the higher chlorinated congeners (*i.e.*, those further to the right on the bar chart) could not form as a result of environmental weathering of lower chlorinated congeners (*i.e.*, those further to the left on the bar charts) present in Aroclor 1016. (Rodenburg *Seattle Dep.*, Ex. B 89:6-10, 237:19-239:2; Rodenburg *Spokane Dep.*, Ex. C 146:10-24). Rodenburg is thus unable to explain the presence of these higher-chlorinated congeners within the sampling data, and instead, excludes them entirely from her analysis.

Rodenburg’s analysis is akin to facial recognition software that determines the strength of comparison based solely on the composition of one’s nose, rather than simultaneously considering additional facial features, including the eyes, lips, chin, ears, etc. By failing to consider whether sampling data is comprised of a mixture of Aroclor and byproduct PCB sources, Rodenburg’s methodology excludes at least 30% of the PCB

1 mass present in Air1 (the blue bars between congeners 77 and 209)—including numerous  
2 byproduct congeners. (Rodenburg *Seattle* Dep., Ex. B at 234:24-236:12, 238:6-239:2).  
3 Rather than attempt to explain the presence of these congeners within the sampling data,  
4 Rodenburg simply ignores them and attributes the entirety of Air1 to an Aroclor source.  
5 (*Id.* at 240:10-15).

6 In other instances, Rodenburg excludes up to 50% of the PCB mass within  
7 sampling data before attributing that data solely to an Aroclor source. (*See, e.g.,*  
8 Rodenburg *Seattle* Dep., Ex. B at 243:16-244:13 (one half of the PCB mass in  
9 “Sediment1”—which Rodenburg attributes entirely to an Aroclor source, Ex. A at 18—  
10 cannot be explained by Aroclor 1016)). Rodenburg’s arbitrary exclusion of data contrary  
11 to her ultimate conclusion renders her methodology unreliable. *Abarca v. Franklin Cty.*  
12 *Water Dist.*, 761 F. Supp. 2d 1007, 1066 at n.60 (E.D. Cal. 2011) (“[A] reliable expert  
13 would not ignore contrary data, misstate the findings of others, [or] make sweeping  
14 statements without support[.]”) (citation omitted); *Henricksen v. ConocoPhillips Co.*, 605  
15 F. Supp. 2d 1142, 1153-54 (E.D. Wash. 2009) (“The court need not admit an expert  
16 opinion that is connected to the underlying data ‘only by the ipse dixit of the expert.’”) (quoting *Joiner*, 522 U.S. at 146).

18 These methodological flaws are exacerbated by the fact that Rodenburg excluded  
19 additional byproduct PCB mass from her analyses under the guise of a “data validation”  
20 step completed before running her PMF program. This process admittedly resulted in the  
21 removal of byproduct PCB mass—including PCB 11, which is “virtually absent in  
22 Monsanto’s Aroclors.” (Rodenburg *Seattle* Rpt., Ex. A at 5, 14; Rodenburg *Seattle* Dep.,  
23 Ex. B 120:19-121:2). Rodenburg admits that she excluded from her analyses sampling  
24 data comprised of more than 78% byproduct PCBs. (Rodenburg *Seattle* Dep., Ex. B  
25 193:21-194:3). In total, Rodenburg excluded 40% of the aggregate PCB mass from  
26 surface water data, 24% from groundwater data, 55% from otter scat data, 12% from air  
27 deposition data, 8% from storm drain data, 6% from sediment data and 4% from tissue  
28 data. (*Id.* at 198:18-22, 199:5-200:15, 201:9-13, 205:25-206:5). By arbitrarily excluding

1 byproduct PCB mass from her PMF analyses, Rodenburg’s methodology undercounts  
2 byproduct and overstates Aroclor contributions to the LDW. (*Id.* at 210:4-22).

3 Rodenburg further understates byproduct contributions to the LDW by  
4 considering only 4 congeners (PCBs 11, 206, 208 and 209) and two sources (silicon and  
5 pigment) of byproduct PCBs, despite admitting that more than 130 individual congeners  
6 contained within hundreds of consumer products have been identified as byproduct in  
7 nature. (Rodenburg *Seattle* Dep., Ex. B 53:11-18, 59:10-12, 122:3-9, 153:13-154:6,  
8 224:3-9, 229:5-9, 256:5-8; *see also* Rodenburg *Spokane* Dep., Ex. C 43:6-14, 51:4-6,  
9 132:16-23; Rodenburg *San Diego* Dep., Ex. D 35:8-37:18). Indeed, Rodenburg admits  
10 that, by considering only 4 out of 130 potential byproduct congeners, her methodology  
11 could result in an undercounting of byproduct PCB sources within the LDW.  
12 (Rodenburg *Seattle* Dep., Ex. B 264:15-265:4). Rodenburg further admits that she failed  
13 to consider byproduct sources—such as asphalt—that were “certainly . . . used  
14 throughout the [LDW].” (*Id.* at 252:18-253:15; *id.* at 251:16-252:7 (Rodenburg failed to  
15 consider byproduct sources including caulking, joint compounds, motor vehicle fluid,  
16 asphalt and deicer)). It is only by ignoring these sources and limiting her byproduct  
17 analysis to just 4 out of 130 congeners that Rodenburg is able to offer opinions that >99%  
18 of an environmental compartment (*e.g.*, tissue) is attributable to an Aroclor source,  
19 despite the presence of byproduct congeners within the sampling dataset. (Rodenburg  
20 *Seattle* Rpt., Ex. A at 4, 20; *see also* Rodenburg *Seattle* Dep., Ex. B 259:4-22, 261:15-  
21 262:4).

22 Because she failed to consider the full mass of byproduct sources to the LDW,  
23 and ignored data contrary to the opinions she was retained to offer, Rodenburg’s opinions  
24 are not the product of a reliable methodology, and they should be excluded at trial.  
25 *Abarca*, 761 F. Supp. 2d at 1066; *Henricksen*, 605 F. Supp. 2d at 1153. At the very least,  
26 Rodenburg’s opinions should be limited to those based on a comparison of sampling data  
27 to a mixture of Aroclor and all relevant byproduct PCB sources and congeners found  
28 within the LDW.

**C. Rodenburg's  $r^2$  Cutoff Values are Unreliable and Scientifically Indefensible**

In addition to performing a visual comparison, Rodenburg used MLR to determine whether PMF factors were more similar to Aroclor versus byproduct PCB patterns found in silicon and pigment. (Rodenburg *Seattle Dep.*, Ex. B 78:4-16, 87:5-14). The MLR generates an  $r^2$  value ranging from zero to 1.0. (*Id.* at 88:14-20). Rodenburg then interpreted the  $r^2$  values using numerical cutoff values of her own creation which: (1) are scientifically arbitrary and indefensible; (2) have never been subjected to peer-review; and (3) are contradicted by authoritative literature that Rodenburg cites favorably.<sup>2</sup>

According to Rodenburg, an  $r^2$  value of 0 to 0.4 indicates that sampling data contained a highly weathered Aroclor or a non-Aroclor source; 0.4 to 0.8 indicates a weathered Aroclor; and 0.8 to 1.0 indicates a single unweathered Aroclor. (Rodenburg *Seattle Dep.*, Ex. B 88:21-91:9). These cutoffs, however, have never been published in any handbook, textbook or peer-reviewed article. (Rodenburg *Spokane Dep.*, Ex. C 135:12-136:2, 139:12-16). Instead, they were contrived entirely by Rodenburg, who concedes that she cannot scientifically disprove the use of  $r^2$  cutoff values different than those she selected for her analyses. (*Id.* at 138:18-139:11). In fact, a published study that Rodenburg cites favorably used different  $r^2$  values, requiring a value of 0.9 or greater to determine whether a sample contained PCBs, and rejecting an  $r^2$  value of 0.725 as insufficient. (*Id.* at 140:2-142:2; *see also* Rodenburg *Seattle Rpt.*, Ex. A at 24 (citing Burkhard and Weininger (1987))).

Critically, had Rodenburg employed an  $r^2$  cutoff of 0.9 to signify the presence of Aroclor PCBs, only 21.4% (9 out of 42)<sup>3</sup> of the environmental compartments Rodenburg considered would have been deemed to acceptably resemble Aroclors. (*See* Rodenburg

<sup>2</sup> As with her visual inspection, Rodenburg's MLR also failed to consider whether environmental sampling data was best explained by a mixture of Aroclor and byproduct sources. (Rodenburg *Seattle Dep.*, Ex. B 223:10-15).

<sup>3</sup> The compartments are: Air5, Sed3, Sed5, Water 4, StormD1, StormD5, StormW1, StormW5, and GW4.

1 Demonstrative, Ex. G to DeBord Decl. (Rodenburg *Seattle* Dep., Ex. 33) (providing  $r^2$   
2 values across various environmental compartments considered by Rodenburg); *see also*  
3 Ex. B at 301:21-302:3). This figure is in stark contrast to Rodenburg's opinion that "in  
4 most cases, greater than 95%" of the total PCBs in the LDW are Aroclors. (Rodenburg  
5 *Seattle* Rpt., Ex. A at 3). Nevertheless, Rodenburg employed arbitrary  $r^2$  cutoff values  
6 favorable to the conclusion she was hired to reach—that Aroclors are the "dominant"  
7 sources of PCBs in the LDW. (*Id.*)

8 Because her MLR analyses are based on quantitative cutoffs that are arbitrary,  
9 scientifically indefensible, and have never been subjected to peer review, Rodenburg's  
10 opinions do not reflect "scientific knowledge" and should therefore be excluded from  
11 trial. *Whisnant v. United States*, No. C03-5121, 2006 WL 2861112, at \*3 (W.D. Wash.  
12 Oct. 5, 2006), *aff'd*, 274 F. App'x 536 (9th Cir. 2008) ("[T]he party presenting the expert  
13 must show that the expert's findings are based on sound science, and this will require  
14 some objective, independent validation of the expert's methodology."); *Henricksen*, 605  
15 F. Supp. 2d at 1162. Alternatively, Rodenburg's opinions should be confined to those  
16 based on  $r^2$  values which have been subjected to peer review, or are otherwise generally  
17 accepted within the scientific community.

#### 18 **IV. CONCLUSION**

19 For the foregoing reasons, Rodenburg's opinions do not meet the standard for  
20 expert opinions mandated by *Daubert* and should therefore be excluded from trial under  
21 Rule 702. At the very least, Rodenburg's opinions should be limited to those which are  
22 derived: (1) from data obtained *within* the LDW; (2) through a comparison of sampling  
23 data with mixtures of both Aroclor and all relevant byproduct PCB sources and  
24 congeners; that is (3) interpreted using  $r^2$  cutoff values that have been subjected to peer  
25 review or are otherwise generally accepted within the scientific community.

1 DATED: August 11, 2022

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